

## CONTENTS OF VOLUME 73

5-HT .. .. .	605
ABRAHAMS, M.V., <i>see</i> BIRO, P.A.	
<i>Acinonyx jubatus</i> .. .. .	651
acoustic behaviour .. .. .	747
acoustic communication .. .. .	513, 955
acoustic communication, behavioural specialization .. .. .	99
acoustic signals .. .. .	281, 897
<i>Acrocephalus schoenobaenus</i> .. .. .	629
adaptation .. .. .	195, 971
adaptive radiation .. .. .	415
adaptive variation .. .. .	763
African elephant .. .. .	671
age-related behaviour .. .. .	979, 1009
aggression .. .. .	75, 239, 605
aggressive defence .. .. .	897, 907
agonistic behaviour .. .. .	275
ALEKSIEV, A.S., SENDOVA-FRANKS, A.B., FRANKS, N.R. The selection of building material for wall construction by ants .. .. .	779
allelomimesis .. .. .	595
alliance .. .. .	391
altruism .. .. .	897, 907
American rubyspot .. .. .	987
<i>Anas crecca</i> .. .. .	845
ancestral plasticity .. .. .	415
ANDERSON, R.C., <i>see</i> HUGHES, M.	
<i>Anelosimus studiosus</i> .. .. .	195
animal communication .. .. .	287
animal welfare .. .. .	1
ant colony .. .. .	525, 779
ant structures .. .. .	1067
antipredator behaviour .. .. .	215, 567, 855, 965
antipredator defence .. .. .	445, 471, 771, 891
ants .. .. .	999
anurans .. .. .	513
<i>Aphelocoma californica</i> .. .. .	55
<i>Aphelocoma coerulescens</i> .. .. .	55
<i>Aphelocoma insularis</i> .. .. .	55
<i>Apis mellifera</i> .. .. .	541
<i>Archocentrus nigrofasciatus</i> .. .. .	275
ARMSTRONG, J.D., <i>see</i> HAWKINS, L.A.	
army ant .. .. .	1067
ARNAUD, A., <i>see</i> GUILLEMAIN, M.	
ARNOLD, S.J., <i>see</i> HOUCK, L.D.	
<i>Artibeus watsoni</i> .. .. .	157
ARZEL, C., <i>see</i> GUILLEMAIN, M.	
association patterns .. .. .	157
<i>Athene cunicularia</i> .. .. .	65
Atlantic salmon .. .. .	471, 1051
attention .. .. .	1033
auditory processing .. .. .	249
baboon .. .. .	885

BAGLIONE, V., see CANESTRARI, D.	
bank vole .. .. .	623
BANUELOS, C., see GRAY, D.A.	
Barbary macaque .. .. .	249
barking treefrog .. .. .	513
BARKLEY, C.L., JACOBS, L.F. Sex and species differences in spatial memory in food-storing kangaroo rats ..	321
BASTAIN, B., see FERNÁNDEZ-JURICIC, E.	
BAUER, E.B., SMUTS, B.B. Cooperation and competition during dyadic play in domestic dogs, <i>Canis familiaris</i>	489
bearded seal .. .. .	747
BEAUCHAMP, G. Vigilance in a selfish herd .. .. .	445
BEAUCHAMP, G., see FERNÁNDEZ-JURICIC, E.	
BEECHER, M.D., BURT, J.M., O'LOGHLEN, A.L., TEMPLETON, C.N., CAMPBELL, S.E. Bird song learning in an eavesdropping context .. .. .	929
behavioural compatibility .. .. .	815
behavioural discrimination .. .. .	907
behavioural flexibility .. .. .	535
behavioural mechanisms .. .. .	105
behavioural plasticity .. .. .	865, 979
behavioural synchrony .. .. .	229
benefits of age, body condition and body size .. .. .	479
BERNAL, X.E., RAND, A. S., RYAN, M.J. Sex differences in response to nonconspecific advertisement calls: receiver permissiveness in male and female túngara frogs .. .. .	955
bet hedging .. .. .	195
<i>Betta</i> spp. .. .. .	75
between-group competition .. .. .	671
BILDE, T., TUNI, C., ELSAYED, R., PEKAR, S., TOFT, S. Nuptial gifts of male spiders: sensory exploitation of the female's maternal care instinct or foraging motivation? .. .. .	267
bioacoustics .. .. .	287
biparental care .. .. .	143
BIRO, P.A., ABRAHAMS, M.V., POST, J.R. Direct manipulation of behaviour reveals a mechanism for variation in growth and mortality among prey populations.. .. .	891
black-bellied wren .. .. .	105
black-tailed prairie dog .. .. .	567
BLACKBURN, L., see HOPPITT, W.	
BLACKLEDGE, T.A., ZEVENBERGEN, J.M. Condition-dependent spider web architecture in the western black widow, <i>Latrodectus hesperus</i> .. .. .	855
BLANCKENHORN, W.U., see TEUSCHL, Y.	
blood parasites .. .. .	805
blue monkey .. .. .	1009
blue tit .. .. .	805
blue-headed vireo .. .. .	143
BLUMENRATH, S.H., DABELSTEEN, T., PEDERSEN, S.B. Vocal neighbour-mate discrimination in female great tits despite high song similarity .. .. .	789
body attractiveness .. .. .	937
body condition .. .. .	215
body size .. .. .	85, 683
BOHN, K.M., WILKINSON, G.S., MOSS, C.F. Discrimination of infant isolation calls by female greater spear-nosed bats, <i>Phyllostomus hastatus</i> .. .. .	423
BORGES, M., see LAUMANN, R.A.	
BOTERO, C.A., RIVEROS, J.M., VEHCENCAMP, S.L. Relative threat and recognition ability in the responses of tropical mockingbirds to song playback .. .. .	661
BOTTENSEK, L.M., see HUGHES, M.	
BOUWMAN, K.M., VAN DIJK, R.E., WIJMEGA, J.J., KOMDEUR, J. Older male reed buntings are more successful at gaining extrapair fertilizations .. .. .	15
BRAATEN, R.F., PETZOLDT, M., CYBENKO, A.K. Recognition memory for conspecific and heterospecific song in juvenile zebra finches, <i>Taeniopygia guttata</i> .. .. .	403
brain size .. .. .	535
BREAU, C., see LEDUC, A.O.H.C.	
breeding .. .. .	815
breeding performance .. .. .	433

breeding synchrony .. .. .	943
BRIFFA, M., ELWOOD, R.W. Monoamines and decision making during contests in the hermit crab <i>Pagurus bernhardus</i> .. .. .	605
brood parasitism .. .. .	55
brood-rearing coalition .. .. .	239
brood reduction .. .. .	691
BROWN, G.E., see LEDUC, A.O.H.C.	
brown-headed cowbird .. .. .	771
BUCHANAN, K.L., see MARSHALL, R.C.	
building material .. .. .	779
BURKART, J.M., HESCHL, A. Understanding visual access in common marmosets, <i>Callithrix jacchus</i> : perspective taking or behaviour reading? .. .. .	457
BURNS, K.C., see VAN HORIK, J.	
burrowing owl .. .. .	65
BURT, J.M., see BEECHER, M.D.	
BUSSIÈRE, L.F., see GWYNNE, D.T.	
BYRNE, R.W., see NOSER, R.	
CABRERA, A., see JAFFE, K.	
cache dispersal .. .. .	717
cache loss .. .. .	717
caching .. .. .	717
CADE, W.H., see GRAY, D.A.	
<i>Callithrix jacchus</i> .. .. .	457, 1033
CAM, E., see NAVES, L.C.	
camouflage .. .. .	797, 979
CAMPBELL, S.E., see BEECHER, M.D.	
CANESTRARI, D., MARCOS, J.M., BAGLIONE, V. Costs of chick provisioning in cooperatively breeding crows: an experimental study .. .. .	349
<i>Canis familiaris</i> .. .. .	489
<i>Canis lupus</i> .. .. .	215
cannibalism .. .. .	415
CAO, T.T., see HYLAND, K.M.	
<i>Capricornis crispus</i> .. .. .	125
carnivore .. .. .	613
carriion crow .. .. .	349
caste .. .. .	559
CASTELLINI, C., see UGOLINI, A.	
CATCHPOLE, C.K., see MARSHALL, R.C.	
<i>Cavia aperea</i> f. <i>porcellus</i> .. .. .	917
cavity nesting .. .. .	805
<i>Cebus capucinus</i> .. .. .	205
<i>Cercopithecus mitis stuhlmanni</i> .. .. .	1009
<i>Cervus elaphus</i> .. .. .	215
chacma baboons .. .. .	257
CHALFOUN, A.D., MARTIN, T.E. Latitudinal variation in avian incubation attentiveness and a test of the food limitation hypothesis .. .. .	579
CHARPENTIER, M.J.E., PEIGNOT, P., HOSSAERT-MCKEY, M., WICKINGS, E.J. Kin discrimination in juvenile mandrills, <i>Mandrillus sphinx</i> .. .. .	37
CHAVERRI, G., GAMBA-RIOS, M., KUNZ, T.H. Range overlap and association patterns in the tent-making bat <i>Artibeus watsoni</i> .. .. .	157
cheating .. .. .	965
cheetah .. .. .	651
chemical communication .. .. .	301
chemical cue .. .. .	331, 739
chemical ecology .. .. .	471
chemical profile .. .. .	999
CHENEY, D.L., see CROCKFORD, C.	
CHERRY, M.I., see JORDAN, N.R.	
chick provisioning .. .. .	349
chimpanzee .. .. .	133, 281, 501, 1021

<i>Chiroxipha lanceolata</i> .. .. .	391
CHIVER, I., MORTON, E.S., STUTCHBURY, B.J.M. Incubation delays territory defence by male blue-headed vireos, <i>Vireo solitarius</i> .. .. .	143
chronometric mechanisms .. .. .	453
circumannual .. .. .	845
CLARK, C.W., see RISCH, D.	
<i>Clethrionomys glareolus</i> .. .. .	623
cockatiel .. .. .	815
cognition .. .. .	281, 535, 885, 1059
cognitive map .. .. .	257
cognitive processes .. .. .	1
cohabitation .. .. .	865
ČOKL, A., see LAUMANN, R.A.	
<i>Colias eurytheme</i> L. .. .. .	47
collective behaviour .. .. .	525, 595
collective decision making .. .. .	525
collective detection .. .. .	445
collective movements .. .. .	825
COLOMB, J., GRILLENZONI, N., STOCKER, R.F., RAMAEKERS, A. Complex behavioural changes after odour exposure in <i>Drosophila</i> larvae .. .. .	587
colony founding .. .. .	541
colony organization .. .. .	1067
coloration .. .. .	797
Columbian ground squirrel .. .. .	115
common eider .. .. .	877
common loon .. .. .	683
common marmoset .. .. .	457, 1033
common yellowthroat .. .. .	165
communal breeding, costs and benefits of .. .. .	185
communal denning .. .. .	149
communication .. .. .	637
competition .. .. .	125, 275, 525, 1043
conflict .. .. .	613
conservation .. .. .	1
consolation .. .. .	133
conspecific signalling .. .. .	65
constraints .. .. .	971
contagion .. .. .	229
convict cichlid .. .. .	275
CONWAY, C.J., see SMITH, M.D.	
COOPER, A.B., PETTORELLI, N., DURANT, S.M. Large carnivore menus: factors affecting hunting decisions by cheetahs in the Serengeti .. .. .	651
cooperation .. .. .	143, 391, 541, 897, 907, 1067
cooperative breeding .. .. .	349
cooperative play strategies .. .. .	489
cooperative territory defence .. .. .	105
CORDINGLEY, J., see FISCHHOFF, I.R.	
CÓRDOBA-AGUILAR, A., see SERRANO-MENESES, M.A.	
CORDS, M., see EKERNAS, L.S.	
CORKERON, P.J., see RISCH, D.	
<i>Corvus corone corone</i> .. .. .	349
costs of care .. .. .	349
courtship .. .. .	415
courtship display .. .. .	391
covering behaviour .. .. .	979
crab spider .. .. .	797
CREEL, S., see WINNIE, J., JR	
croaking gourami .. .. .	379
CROCKFORD, C., WITTIG, R.M., SEYFARTH, R.M., CHENEY, D.L. Baboons eavesdrop to deduce mating opportunities .. .. .	885

<i>Crocota crocuta</i> .. .. .	149
cuckoldry .. .. .	15
culture .. .. .	1017
cuticular hydrocarbons .. .. .	999
<i>Cyanistes caeruleus</i> .. .. .	805
CYBENKO, A.K., see BRAATEN, R.F.	
<i>Cynomys ludovicianus</i> .. .. .	567
DABELSTEEN, T., see BLUMENRATH, S.H.	
DALRYMPLE, S.E., see JONES, T.C.	
damage-released chemical alarm cues .. .. .	471
Darwin's finches .. .. .	833
dear enemy effect .. .. .	661
decision making .. .. .	605
decoration .. .. .	979
defence and monopolization of food .. .. .	275
degu .. .. .	185
DELANEY, K.S., see PEER, B.D.	
DESCHÊNES, I., see DUMONT, C.P.	
detection and capture of camouflaged prey .. .. .	205
D'ETTORRE, P., see FOITZIK, S.	
development .. .. .	1009
DEYOUNG, R.W., see LINGLE, S.	
DICKINSON, J.L., see KLEIBER, D.	
differential allocation .. .. .	165
dilution versus detection .. .. .	115
<i>Dipodomys merriami</i> .. .. .	321
<i>Dipodomys microps</i> .. .. .	321
diptera-orthoptera coevolution .. .. .	99
direct behavioural manipulation .. .. .	891
direct benefits .. .. .	623
discrete choice models .. .. .	651
discrimination learning .. .. .	1059
dishonesty .. .. .	965
dispersal .. .. .	1009
division of labour .. .. .	541, 1067
divorce .. .. .	433, 815
DNA fingerprinting .. .. .	367
DOBSON, E.S., see FAIRBANKS, B.	
domestic dog .. .. .	489
domestic fowl .. .. .	229
domesticated strain .. .. .	75
dopamine .. .. .	605
DORNHAUS, A., see FRANKS, N.R.	
DREA, C.M., see SCORDATO, E.S.	
drinking .. .. .	825
DROLET, D., see DUMONT, C.P.	
<i>Drosophila</i> larvae .. .. .	587
duet code .. .. .	105
DUMONT, C.P., DROLET, D., DESCHÊNES, I., HIMMELMAN, J.H. Multiple factors explain the covering behaviour in the green sea urchin, <i>Strongylocentrotus droebachiensis</i> .. .. .	979
DUNCAN, A.B., see SHUKER, D.M.	
dung fly .. .. .	85
DUNN, P.O., see MITCHELL, D.P.	
DURANT, S.M., see COOPER, A.B.	
DUVAL, E.H. Social organization and variation in cooperative alliances among male lance-tailed manakins .. .. .	391
eastern grey kangaroo .. .. .	595
eavesdropping .. .. .	99, 637, 885, 929
EBENSPERGER, L.A., HURTADO, M.J., LEÓN, C. An experimental examination of the consequences of communal versus solitary breeding on maternal condition and the early postnatal growth and survival of degu, <i>Octodon degus</i> , pups .. .. .	185



ECCARD, J.A., see KLEMME, I.	
<i>Eciton burchellii</i> .. .. .	1067
ectoparasites .. .. .	805
EDLY-WRIGHT, C., SCHWAGMEYER, P.L., PARKER, P.G., MOCK, D.W. Genetic similarity of mates, offspring health and extrapair fertilization in house sparrows .. .. .	367
egg ejection .. .. .	55
egg parasitoid .. .. .	637
eider .. .. .	239
EKERNAS, L.S., CORDS, M. Social and environmental factors influencing natal dispersal in blue monkeys, <i>Cercopithecus mitis stuhlmanni</i> .. .. .	1009
ELEPFANDT, A., see RISCH, D.	
elephant seal .. .. .	287
elk .. .. .	215
ELMBERG, J., see GUILLEMAIN, M.	
ELSAYED, R., see BILDE, T.	
ELWOOD, R.W., see BRIFFA, M.	
<i>Emberiza schoeniclus</i> .. .. .	15
emergence .. .. .	595
EMERY THOMPSON, M., KAHLENBERG, S.M., GILBY, I.C., WRANGHAM, R.W. Core area quality is associated with variance in reproductive success among female chimpanzees at Kibale National Park .. .. .	501
emigration .. .. .	525, 1009
emulation.. .. .	1021
endocrinology .. .. .	501
enrichment .. .. .	29
environment .. .. .	171
environmental risk .. .. .	1009
environmental variation .. .. .	195
episodic memory.. .. .	257
equid .. .. .	825
<i>Equus burchellii</i> .. .. .	825
<i>Erignathus barbatus</i> .. .. .	747
ESS.. .. .	445
<i>Eumomota superciliosa</i> .. .. .	965
<i>Euschistus heros</i> .. .. .	637
evolutionarily stable strategies.. .. .	445
extrapair copulation .. .. .	629, 885
extrapair fertilization .. .. .	367
extrapair mating .. .. .	165, 815
extrapair paternity .. .. .	15
face attractiveness .. .. .	937
FAIRBANKS, B., DOBSON, F.S. Mechanisms of the group-size effect on vigilance in Columbian ground squirrels: dilution versus detection .. .. .	115
fear .. .. .	171
FEDIGAN, L.M., see MELIN, A.D.	
feeding constraint .. .. .	691
feeding efficiency .. .. .	845
FELDHOF, P.W., see HOUCK, L.D.	
FELDHOF, R.C., see HOUCK, L.D.	
female choice .. .. .	629
female dominance .. .. .	301
female ornament .. .. .	1077
female prespawning sound.. .. .	379
female receptivity .. .. .	85
female-biased sexual size dimorphism .. .. .	479
FERNÁNDEZ-JURICIC, E., BEAUCHAMP, G., BASTAIN, B. Group-size and distance-to-neighbour effects on feeding and vigilance in brown-headed cowbirds .. .. .	771
fertilization success .. .. .	15
<i>Ficedula hypoleuca</i> .. .. .	691
fiddler crab .. .. .	711

fighting .. .. .	943
fighting fish .. .. .	75
FILIPPI, L., see HIRONAKA, M.	
FISCHER, J., see TEUFEL, C.	
FISCHHOFF, I.R., SUNDARESAN, S.R., CORDINGLEY, J., LARKIN, H.M., SELLIER, M.-J., RUBENSTEIN, D.I. Social relationships and reproductive state influence leadership roles in movements of plains zebra, <i>Equus burchellii</i> .. .. .	825
fish .. .. .	379
FLEISCHER, R.C., see PEER, B.D.	
Florida scrub-jay .. .. .	55
flyway .. .. .	845
FOITZIK, S., STURM, H., PUSCH, K., D'ETTORRE, P., HEINZE, J. Nestmate recognition and intraspecific chemical and genetic variation in <i>Temnothorax</i> ants .. .. .	999
FOKIDIS, H.B., RISCH, T.S., GLENN, T.C. Reproductive and resource benefits to large female body size in a mammal with female-biased sexual size dimorphism .. .. .	479
food availability .. .. .	579
food hoarding .. .. .	1043
food supplementation .. .. .	349
foraging .. .. .	637, 771, 825, 845, 855, 865, 979
foraging ecology.. .. .	321
foraging skills .. .. .	205
foraging strategy .. .. .	779, 1067
foraging tactics .. .. .	65
foraging theory .. .. .	877
foraging time .. .. .	711
FOSTER, S.A., see SHAW, K.A.	
FRANKS, N.R., DORNHAUS, A., HITCHCOCK, G., GUILLEM, R., HOOPER, J., WEBB, C. Avoidance of conspecific colonies during nest choice by ants .. .. .	525
FRANKS, N.R., see ALEKSIEV, A.S.	
FRANKS, N.R., see POWELL, S.	
FREEMAN-GALLANT, C.R., see MITCHELL, D.P.	
freshwater fish .. .. .	275
FRITZ, H., see GUILLEMAIN, M.	
GALIMBERTI, F., see SANVITO, S.	
<i>Gallus gallus domesticus</i> .. .. .	229
GAMBA-RIOS, M., see CHAVERRI, G.	
game theory .. .. .	445
<i>Gasterosteus aculeatus</i> .. .. .	415
<i>Gavia immer</i> .. .. .	683
gaze following .. .. .	457
genetic benefits .. .. .	623
genetic monogamy .. .. .	143
genetic variation .. .. .	999
geographical variation .. .. .	747, 833
<i>Geospiza fortis</i> .. .. .	833
<i>Geothlypis trichas</i> .. .. .	165
GERARD, J.-F., see PAYS, O.	
GETZ, W.M., see WITTEMYER, G.	
GILBY, I.C., see EMERY THOMPSON, M.	
GILCHRIST, H.G., see HEATH, J.P.	
gill display .. .. .	75
<i>Glaucomys volans</i> .. .. .	479
GLENN, T.C., see FOKIDIS, H.B.	
goal-directed behaviour .. .. .	257
GOSHIMA, S., see SATO, T.	
GRAHAM, A., see SHUKER, D.M.	
GRANT, J.W.A., see KIM, J.-W.	
GRAY, D.A., BANUELOS, C., WALKER, S.E., CADE, W.H., ZUK, M. Behavioural specialization among populations of the acoustically orienting parasitoid fly <i>Ormia ochracea</i> utilizing different cricket species as hosts .. .. .	99

Great Basin kangaroo rat .. .. .	321
great tit .. .. .	789
greater spear-nosed bat .. .. .	423
green sea urchin .. .. .	979
GRILLENZONI, N., see COLOMB, J.	
group defence .. .. .	763
group dynamics .. .. .	825
group raiding .. .. .	1067
group size .. .. .	215, 595
group vigilance .. .. .	445
group-size effect .. .. .	115, 771
growth-survival trade-off .. .. .	891
GUILLEM, R., see FRANKS, N.R.	
GUILLEMAIN, M., ARZEL, C., LEGAGNEUX, P., ELMBERG, J., FRITZ, H., LEPLEY, M., PIN, C., ARNAUD, A., MASSEZ, G. Predation risk constrains the plasticity of foraging behaviour in teals, <i>Anas crecca</i> : a flyway-level circumannual approach .. .. .	845
guinea pig .. .. .	917
GWYNNE, D.T., BUSSIÈRE, L.F., IVY, T.M. Female ornaments hinder escape from spider webs in a role-reversed swarming dance fly .. .. .	1077
habitat .. .. .	359
habitat choice .. .. .	891
habitat ecology .. .. .	501, 1067
habitat selection .. .. .	865
HAHN, T.P., see PRAMOSUDOV, V.V.	
HAMMERSCHMIDT, K., see TEUFEL, C.	
<i>Hapalogaster dentata</i> .. .. .	331
HARIYAMA, T., see HIRONAKA, M.	
hatching asynchrony .. .. .	691
HAUSER, M.D. When males call, females listen: sex differences in responsiveness to rhesus monkey, <i>Macaca mulatta</i> , copulation calls .. .. .	1059
HAWKINS, L.A., MAGURRAN, A.E., ARMSTRONG, J.D. Innate abilities to distinguish between predator species and cue concentration in Atlantic salmon .. .. .	1051
HEATH, J.P., GILCHRIST, H.G., YDENBERG, R.C. Can dive cycle models predict patterns of foraging behaviour? Diving by common eiders in an Arctic polynya .. .. .	877
HEINZE, J., see FOITZIK, S.	
helping behaviour .. .. .	349
hemispheric asymmetry .. .. .	249
herd size .. .. .	215
hermit crab .. .. .	605
HESCHL, A., see BURKART, J.M.	
<i>Hetaerina americana</i> .. .. .	987
HIMMELMAN, J.H., see DUMONT, C.P.	
HIRAMATSU, C., see MELIN, A.D.	
HIRONAKA, M., FILIPPI, L., NOMAKUCHI, S., HORIGUCHI, H., HARIYAMA, T. Hierarchical use of chemical marking and path integration in the homing trip of a subsocial shield bug .. .. .	739
HITCHCOCK, G., see FRANKS, N.R.	
HOEFER, C.D. Male mate choice and size-assortative pairing in a jumping spider, <i>Phidippus clarus</i> .. .. .	943
home range size .. .. .	479
homing .. .. .	739
honest signalling .. .. .	683
honeybee .. .. .	541
HOOPER, J., see FRANKS, N.R.	
HOPKINS, W.D., TAGLIALATELA, J.P., LEAVENS, D.A. Chimpanzees differentially produce novel vocalizations to capture the attention of a human .. .. .	281
HOPPER, L.M., SPITERI, A., LAMBETH, S.P., SCHAPIRO, S.J., HORNER, V., WHITEN, A. Experimental studies of traditions and underlying transmission processes in chimpanzees .. .. .	1021
HOPPITT, W., BLACKBURN, L., LALAND, K.N. Response facilitation in the domestic fowl .. .. .	229
HORIGUCHI, H., see HIRONAKA, M.	
HORNER, V., see HOPPER, L.M.	
HOSSAERT-MCKEY, M., see CHARPENTIER, M.J.E.	



host defence .. .. .	55
host-parasite interaction .. .. .	805
host selection .. .. .	99
HOUCK, L.D., PALMER, C.A., WATTS, R.A., ARNOLD, S.J., FELDHOFF, P.W., FELDHOFF, R.C. A new vertebrate courtship pheromone, PMF, affects female receptivity in a terrestrial salamander .. .. .	315
house sparrow .. .. .	367
HPA axis .. .. .	171
HUBER, L., <i>see</i> RANGE, F.	
HUGHES, M., ANDERSON, R.C., SEARCY, W.A., BOTTENSEK, L.M., NOWICKI, S. Song type sharing and territory tenure in eastern song sparrows: implications for the evolution of song repertoires .. .. .	701
humans .. .. .	937
HURTADO, M.J., <i>see</i> EBENSPERGER, L.A.	
<i>Hyla gratiosa</i> .. .. .	513
HYLAND, K.M., CAO, T.T., MALECHUK, A.M., LEWIS, L.A., SCHNEIDER, S.S. Vibration signal behaviour and the use of modulatory communication in established and newly founded honeybee colonies.. .. .	541
hymenoptera .. .. .	541, 637
imitation .. .. .	229, 1021, 1033
inbreeding avoidance .. .. .	125
incubation .. .. .	579
incubation and territory defence .. .. .	143
individual investment .. .. .	763
individual quality .. .. .	433
individual recognition .. .. .	105, 301, 423, 661, 1059
individual variation .. .. .	727
induced ovulation .. .. .	623
information gathering .. .. .	29
innate behaviour .. .. .	1051
intrasexual competition .. .. .	301, 501
intraspecific aggression .. .. .	525
IRSCHICK, D.J., <i>see</i> MCELROY, E.J.	
island scrub-jay.. .. .	55
IVY, T.M., <i>see</i> GWYNNE, D.T.	
IWAMOTO, T., <i>see</i> VERBEEK, P.	
JAATINEN, K., <i>see</i> ÖST, M.	
JACOBS, L.F., <i>see</i> BARKLEY, C.L.	
JAFFE, K., MIRÁS, B., CABRERA, A. Mate selection in the moth <i>Neoleucinodes elegantalis</i> : evidence for a supernormal chemical stimulus in sexual attraction .. .. .	727
Japanese serow .. .. .	125
JARMAN, P.J., <i>see</i> PAYS, O.	
JONES, T.C., RIECHERT, S.E., DALRYMPLE, S.E., PARKER, P.G. Fostering model explains variation in levels of sociality in a spider system.. .. .	195
JORDAN, N.R., CHERRY, M.I., MANSER, M.B. Latrine distribution and patterns of use by wild meerkats: implications for territory and mate defence.. .. .	613
jumping spider .. .. .	943
juvenile .. .. .	37
KAHLENBERG, S.M., <i>see</i> EMERY THOMPSON, M.	
karoo prinia .. .. .	579
KAWAMURA, S., <i>see</i> MELIN, A.D.	
KEMP, D.J., <i>see</i> PAPKE, R.S.	
KIKUCHI, T., TSUJI, K., OHNISHI, H., LE BRETON, J. Caste-biased acceptance of non-nestmates in a polygynous ponerine ant .. .. .	559
KIM, J.-W., GRANT, J.W.A. Effects of patch shape and group size on the effectiveness of defence by juvenile convict cichlids .. .. .	275
kin recognition .. .. .	37
kin selection .. .. .	763
kittiwake .. .. .	433

KLEIBER, D., KYLE, K., ROCKWELL, S.M., DICKINSON, J.L. Sexual competition explains patterns of individual investment in territorial aggression in western bluebird winter groups .. ..	763
KLEMMER, I., ECCARD, J.A., YLÖNEN, H. Why do female bank voles, <i>Clethrionomys glareolus</i> , mate multiply? .. ..	623
kleptoparasitism .. ..	1043
KOBER, M., TRILLMICH, F., NAGUIB, M. Vocal mother-pup communication in guinea pigs: effects of call familiarity and female reproductive state .. ..	917
KOMDEUR, J., see BOUWMAN, K.M.	
KOSKI, S.E., STERCK, E.H.M. Triadic postconflict affiliation in captive chimpanzees: does consolation console? .. ..	133
KOVACS, K.M., see RISCH, D.	
KUNZ, T.H., see CHAVERRI, G.	
KYLE, K., see KLEIBER, D.	
LADICH, F. Females whisper briefly during sex: context- and sex-specific differences in sounds made by croaking gouramis .. ..	379
LALAND, K.N., see HOPPITT, W.	
LAMBETH, S.P., see HOPPER, L.M.	
lance-tailed manakin .. ..	391
large-male advantage .. ..	513
LARKIN, H.M., see FISCHHOFF, I.R.	
lateralization .. ..	249
latitudinal variation .. ..	579
latrine distribution .. ..	613
<i>Latrodectus hesperus</i> .. ..	855, 865
LAUMANN, R.A., MORAES, M.C.B., ČOKL, A., BORGES, M. Eavesdropping on sexual vibratory signals of stink bugs (Hemiptera: Pentatomidae) by the egg parasitoid <i>Telenomus podisi</i> .. ..	637
LAYEN, S.J., see SERRANO-MENESES, M.A.	
LEAVENS, D.A., see HOPKINS, W.D.	
LE BRETON, J., see KIKUCHI, T.	
LEDUC, A.O.H.C., ROH, E., BREAU, C., BROWN, G.E. Learned recognition of a novel odour by wild juvenile Atlantic salmon, <i>Salmo salar</i> , under fully natural conditions .. ..	471
LEE, A., see SHUKER, D.M.	
LEGAGNEUX, P., see GUILLEMAIN, M.	
<i>Lemur catta</i> .. ..	301
LEÓN, C., see EBENSBERGER, L.A.	
Lepidoptera .. ..	727
LEPLEY, M., see GUILLEMAIN, M.	
LEWIS, L.A., see HYLAND, K.M.	
life history evolution .. ..	579
life history traits .. ..	433
LINGLE, S., RENDALL, D., PELLIS, S.M. Altruism and recognition in the antipredator defence of deer: 1. Species and individual variation in fawn distress calls .. ..	897
LINGLE, S., RENDALL, D., WILSON, W.F., DEYOUNG, R.W., PELLIS, S.M. Altruism and recognition in the antipredator defence of deer: 2. Why mule deer help nonoffspring fawns .. ..	907
local mate competition .. ..	971
locomotion .. ..	359
LOGUE, D.M. How do they duet? Sexually dimorphic behavioural mechanisms structure duet songs in the black-bellied wren .. ..	105
LOISEL, P., see PAYS, O.	
long-tailed dance fly .. ..	1077
<i>Loxodonta africana</i> .. ..	671
LYDERSEN, C., see RISCH, D.	
<i>Macaca mulatta</i> .. ..	1059
<i>Macaca sylvanus</i> .. ..	249
MACRÌ, S., WÜRBEL, H. Effects of variation in postnatal maternal environment on maternal behaviour and fear and stress responses in rats .. ..	171
<i>Macropus giganteus</i> .. ..	595
MAGER, J.N., III, WALCOTT, C., PIPER, W.H. Male common loons, <i>Gavia immer</i> , communicate body mass and condition through dominant frequencies of territorial yodels .. ..	683

MAGURRAN, A.E., <i>see</i> HAWKINS, L.A.	
major ampullate silk .. .. .	855
male age .. .. .	15
male and female agonistic sound .. .. .	379
MALE, L.H., SMULDERS, T.V. Hyperdispersed cache distributions reduce pilferage: a field study .. .. .	717
MALECHUK, A.M., <i>see</i> HYLAND, K.M.	
male-male competition .. .. .	987
male-male contests .. .. .	943
mandrill .. .. .	37
<i>Mandrillus sphinx</i> .. .. .	37
MANSER, M.B., <i>see</i> JORDAN, N.R.	
manure scattering .. .. .	65
mapping function .. .. .	105
MARCOS, J.M., <i>see</i> CANESTRARI, D.	
MARION, G., <i>see</i> PÉREZ-BARBERÍA, F.J.	
MARSHALL, R.C., BUCHANAN, K.L., CATCHPOLE, C.K. Song and female choice for extrapair copulations in the sedge warbler, <i>Acrocephalus schoenobaenus</i> .. .. .	629
MARTIN, T.E., <i>see</i> CHALFOUN, A.D.	
MASSEZ, G., <i>see</i> GUILLEMAIN, M.	
mate choice .. .. .	47, 301, 331, 367, 513, 937, 943, 1059
mate defence .. .. .	613
mate familiarity .. .. .	433
mate guarding .. .. .	885, 943
mate selection .. .. .	727
mate switching .. .. .	815
maternal behaviour .. .. .	171
maternal condition.. .. .	185
maternal half-siblings .. .. .	15
maternal state .. .. .	917
mating costs .. .. .	1077
mating display .. .. .	379
mating opportunities .. .. .	711
mating signal .. .. .	747
mating success .. .. .	987
mating systems .. .. .	415
matrilineal society .. .. .	37
MCELROY, E.J., MEYERS, J.J., REILLY, S.M., IRSCHICK, D.J. Dissecting the effects of behaviour and habitat on the locomotion of a lizard ( <i>Urosaurus ornatus</i> ) .. .. .	359
medium ground finch .. .. .	833
meerkat .. .. .	613
MELIN, A.D., FEDIGAN, L.M., HIRAMATSU, C., SENDALL, C.L., KAWAMURA, S. Effects of colour vision phenotype on insect capture by a free-ranging population of white-faced capuchins, <i>Cebus capucinus</i> .. .. .	205
<i>Melospiza melodia</i> .. .. .	701, 929
MÉNDEZ, V., <i>see</i> SERRANO-MENESES, M.A.	
MENDL, M., <i>see</i> TEIXEIRA, C.P.	
MERCATELLI, L., <i>see</i> UGOLINI, A.	
MERINO, S., <i>see</i> TOMÁS, G.	
Merriam's kangaroo rat .. .. .	321
MEYERS, J.J., <i>see</i> MCELROY, E.J.	
migratory strategies .. .. .	535
MILLAM, J.R., <i>see</i> SPOON, T.R.	
MILLER, E.H., <i>see</i> SANVITO, S.	
<i>Mimus gilvus</i> .. .. .	661
MIRÁS, B., <i>see</i> JAFFE, K.	
<i>Mirounga leonina</i> .. .. .	287
<i>Misumena vatia</i> .. .. .	797
MITCHELL, D.P., DUNN, P.O., WHITTINGHAM, L.A., FREEMAN-GALLANT, C.R. Attractive males provide less parental care in two populations of the common yellowthroat .. .. .	165

MOCK, D.W., see EDLY-WRIGHT, C.	
modelling vigilance .. .. .	445
modulatory communication .. .. .	541
molecular clock.. .. .	55
<i>Molothrus ater</i> .. .. .	771
monitoring .. .. .	29
MONNAT, J.Y., see NAVES, L.C.	
moon compass .. .. .	453
MORAES, M.C.B., see LAUMANN, R.A.	
MORALES, J., see TOMÁS, G.	
MORENO, J., see TOMÁS, G.	
MORTON, E.S., see CHIVER, I.	
MOSS, C.F., see BOHN, K.M.	
mother-offspring communication .. .. .	917
motivation .. .. .	29, 825, 1059
motivational constraint.. .. .	907
mouse .. .. .	29
mule deer.. .. .	897, 907
multimodal signalling .. .. .	47
multiple mating .. .. .	367, 623
multiple paternity .. .. .	479
MURAKAMI, N., see VERBEEK, P.	
MURPHY, C.G., see POOLE, K.G.	
MURPHY, T.G. Dishonest 'preemptive' pursuit-deterrent signal? Why the turquoise-browed motmot wags its tail before feeding nestlings .. .. .	965
<i>Mus musculus</i> .. .. .	29
mutual viewing.. .. .	75
NAGUIB, M., see KOBER, M.	
<i>Nasonia vitripennis</i> .. .. .	971
natal dispersal .. .. .	125
NAVES, L.C., CAM, E., MONNAT, J.Y. Pair duration, breeding success and divorce in a long-lived seabird: benefits of mate familiarity? .. .. .	433
navigation .. .. .	739
nearest-neighbour distance .. .. .	445
nearest-neighbour effect .. .. .	771
neighbour-mate discrimination.. .. .	789
<i>Neoleucinodes elegantalis</i> .. .. .	727
nepotism .. .. .	671
nest attentiveness .. .. .	579
nest building .. .. .	541, 779
nest choice .. .. .	525
nest reuse.. .. .	805
nestbox .. .. .	789, 805
nestling mortality .. .. .	691
nestmate recognition .. .. .	559, 999
neuroethology .. .. .	535
New Zealand robin .. .. .	1043
NOMAKUCHI, S., see HIRONAKA, M.	
NOSER, R., BYRNE, R.W. Travel routes and planning of visits to out-of-sight resources in wild chacma baboons, <i>Papio ursinus</i> .. .. .	257
NOWICKI, S., see HUGHES, M.	
nuptial feeding .. .. .	267
nursery-web spider .. .. .	267
<i>Nymphicus hollandicus</i> .. .. .	815
O'LOGHLEN, A.L., see BEECHER, M.D.	
OCHIAI, K., SUSAKI, K. Causes of natal dispersal in a monogamous ungulate, the Japanese serow, <i>Capricornis crispus</i> .. .. .	125
<i>Octodon degus</i> .. .. .	185
<i>Odocoileus hemionus</i> .. .. .	897, 907
<i>Odocoileus virginianus</i> .. .. .	897, 907

odorants .. .. .	587
odour .. .. .	613
odour concentration .. .. .	1051
odour recognition .. .. .	471
offspring viability and immunocompetence .. .. .	367
OHNISHI, H., <i>see</i> KIKUCHI, T.	
old nest removal .. .. .	805
olfactory camouflage .. .. .	65
olfactory communication .. .. .	613
olfactory cues .. .. .	897
olfactory learning .. .. .	587
<i>Oncorhynchus mykiss</i> .. .. .	891
open field test .. .. .	171
operant techniques .. .. .	403
optimal sex ratio .. .. .	971
optimal territory size .. .. .	275
orange sulphur butterfly .. .. .	47
orb web structure .. .. .	855
orientation .. .. .	453, 739
orienting asymmetry .. .. .	249
<i>Ormia ochracea</i> .. .. .	99
ornate tree lizard .. .. .	359
ÖST, M., JAATINEN, K., STEELE, B. Aggressive females seize central positions and show increased vigilance in brood-rearing coalitions of eiders .. .. .	239
<i>Ovis aries</i> .. .. .	339
OWINGS, D.H., <i>see</i> SHIER, D.M.	
OWINGS, D.H., <i>see</i> SPOON, T.R.	
<i>Pachycondyla luteipes</i> .. .. .	559
<i>Pagurus bernhardus</i> .. .. .	605
pair bond .. .. .	815
pair bond duration .. .. .	433
PALMER, C.A., <i>see</i> HOUCK, L.D.	
<i>Pan troglodytes</i> .. .. .	133, 281, 1021
<i>Pan troglodytes schweinfurthii</i> .. .. .	501
<i>Papio hamadryas ursinus</i> .. .. .	885
<i>Papio ursinus</i> .. .. .	257
PAPKE, R.S., KEMP, D.J., RUTOWSKI, R.L. Multimodal signalling: structural ultraviolet reflectance predicts male mating success better than pheromones in the butterfly <i>Colias eurytheme</i> L. (Pieridae) .. .. .	47
parasitism costs .. .. .	805
parasitoid fly .. .. .	99
parasitoid wasp .. .. .	971
<i>Parastrachia japonensis</i> .. .. .	739
parental care .. .. .	195, 423, 579
PARKER, P.G., <i>see</i> EDLY-WRIGHT, C.	
PARKER, P.G., <i>see</i> JONES, T.C.	
partial preferences .. .. .	779
<i>Parus major</i> .. .. .	789
pass-along effect .. .. .	445
<i>Passer domesticus</i> .. .. .	367
passerine .. .. .	535, 833, 929
paternal care and ornament size .. .. .	165
path integration .. .. .	739
PAYS, O., JARMAN, P.J., LOISEL, P., GERARD, J.-F. Coordination, independence or synchronization of individual vigilance in the eastern grey kangaroo? .. .. .	595
PEDERSEN, S.B., <i>see</i> BLUMENRATH, S.H.	
PEER, B.D., ROTHSTEIN, S.I., DELANEY, K.S., FLEISCHER, R.C. Defence behaviour against brood parasitism is deeply rooted in mainland and island scrub-jays .. .. .	55
PEIGNOT, P., <i>see</i> CHARPENTIER, M.J.E.	
PEKAR, S., <i>see</i> BILDE, T.	



PELLIS, S.M., see LINGLE, S.	
perception .. .. .	423, 1059
PÉREZ-BARBERÍA, F.J., WALKER, D.M., MARION, G. Maximizing intake under challenging foraging conditions at two spatial scales in Soay sheep .. .. .	339
performance .. .. .	359
perspective taking .. .. .	457
PETERS, M., RHODES, G., SIMMONS, L.W. Contributions of the face and body to overall attractiveness .. .. .	937
<i>Petroica australis</i> .. .. .	1043
PETTORELLI, N., see COOPER, A.B.	
PETZOLDT, M., see BRAATEN, R.E.	
<i>Pheugopedius fasciatoventris</i> .. .. .	105
<i>Phidippus clarus</i> .. .. .	943
Phocidae .. .. .	287
<i>Phyllostomus hastatus</i> .. .. .	423
<i>Physalaemus pustulosus</i> .. .. .	955
physiological costs/benefits .. .. .	979
pied flycatcher .. .. .	691
pilferage .. .. .	717, 1043
PIN, C., see GUILLEMAIN, M.	
PIPER, W.H., see MAGER, J.N., III	
<i>Pisaura mirabilis</i> .. .. .	267
plains zebra .. .. .	825
playback experiment .. .. .	661
<i>Plethodon shermani</i> .. .. .	315
plethodontid courtship pheromone .. .. .	315
plethodontid receptivity/modulating factors .. .. .	315
PMF .. .. .	315
PODOS, J. Discrimination of geographical song variants by Darwin's finches .. .. .	833
polygyny .. .. .	559
polymorphic colour vision .. .. .	205
ponerine ant .. .. .	559
POOLE, K.G., MURPHY, C.G. Preferences of female barking treefrogs, <i>Hyla gratiosa</i> , for larger males: univariate and composite tests .. .. .	513
population dynamics .. .. .	891
POST, J.R., see BIRO, P.A.	
postconflict affiliation .. .. .	133
postrelease survival .. .. .	567
POWELL, S., FRANKS, N.R. How a few help all: living pothole plugs speed prey delivery in the army ant <i>Eciton burchellii</i> .. .. .	1067
PRAVOSUDOV, V.V., SANFORD, K., HAHN, T.P. On the evolution of brain size in relation to migratory behaviour in birds .. .. .	535
precocial breeding .. .. .	479
predation .. .. .	651
predation risk .. .. .	215, 845, 1077
predation-avoidance learning .. .. .	471
predator avoidance .. .. .	65, 567
predator-prey communication .. .. .	965
predator recognition .. .. .	1051
preening .. .. .	229
prey attraction .. .. .	65
prey selection .. .. .	651
prey size .. .. .	691
primate .. .. .	885, 1009
<i>Prinia maculosa</i> .. .. .	579
prior residence .. .. .	433
protection .. .. .	979
pup growth and survival .. .. .	185
pursuit-deterrent signalling .. .. .	965
PUSCH, K., see FOITZIK, S.	

rainbow trout .. .. .	891
RAMAEKERS, A., <i>see</i> COLOMB, J.	
RAND, A.S., <i>see</i> BERNAL, X.E.	
range overlap .. .. .	157
RANGE, F., HUBER, L. Attention in common marmosets: implications for social-learning experiments ..	1033
ranging.. .. .	501
rat .. .. .	171
rate constraints .. .. .	877
<i>Rattus norvegicus</i> .. .. .	171
REANEY, L.T. Foraging and mating opportunities influence refuge use in the fiddler crab, <i>Uca mjoebergi</i> ..	711
recognition error .. .. .	897, 907
recognition memory .. .. .	403
red-legged salamander .. .. .	315
REECE, S.E., <i>see</i> SHUKER, D.M.	
reed bunting .. .. .	15
refuge use.. .. .	711
REILLY, S.M., <i>see</i> MCELROY, E.J.	
RENDALL, D., <i>see</i> LINGLE, S.	
repeated mating .. .. .	623
repertoire size .. .. .	701
reproductive costs and benefits .. .. .	149
reproductive cycle .. .. .	85
reproductive ecology .. .. .	501
reproductive isolation .. .. .	833
reproductive signalling .. .. .	301
reproductive status .. .. .	825
reproductive success .. .. .	501, 623
resource distribution .. .. .	671
response facilitation .. .. .	229
<i>Rhamphomyia longicauda</i> .. .. .	1077
rhesus monkey .. .. .	1059
RHODES, G., <i>see</i> PETERS, M.	
RIECHERT, S.E., <i>see</i> JONES, T.C.	
ringtailed lemur .. .. .	301
RISCH, D., CLARK, C.W., CORKERON, P.J., ELEPFANDT, A., KOVACS, K.M., LYDERSEN, C., STIRLING, I., VAN PARIJS, S.M. Vocalizations of male bearded seals, <i>Erignathus barbatus</i> : classification and geographical variation .. .. .	747
RISCH, T.S., <i>see</i> FOKIDIS, H.B.	
risk assessment .. .. .	471
risk sensitivity .. .. .	195
risk taking .. .. .	711
<i>Rissa tridactyla</i> .. .. .	433
RIVEROS, J.M., <i>see</i> BOTERO, C.A.	
ROCKWELL, S.M., <i>see</i> KLEIBER, D.	
ROH, E., <i>see</i> LEDUC, A.O.H.C.	
ROTHSTEIN, S.I., <i>see</i> PEER, B.D.	
RUBENSTEIN, D.I., <i>see</i> FISCHHOFF, I.R.	
RUTOWSKI, R.L., <i>see</i> PAPKE, R.S.	
RYAN, M.J., <i>see</i> BERNAL, X.E.	
<i>Salmo salar</i> .. .. .	471, 1051
SALOMON, M. Western black widow spiders express state-dependent web-building strategies tailored to the presence of neighbours .. .. .	865
sandhopper .. .. .	453
SANFORD, K., <i>see</i> PRAVOSUDOV, V.V.	
SANVITO, S., GALIMBERTI, F., MILLER, E.H. Vocal signalling of male southern elephant seals is honest but imprecise .. .. .	287
SATO, T., GOSHIMA, S. Female choice in response to risk of sperm limitation by the stone crab, <i>Hapalogaster dentata</i> .. .. .	331
scanning .. .. .	595

scatter hoarding .. .. .	321, 717
scelionid wasp .. .. .	637
scent marking .. .. .	301, 613
SCHAPIRO, S.J., see HOPPER, L.M.	
SCHNEIDER, S.S., see HYLAND, K.M.	
SCHWAGMEYER, P.L., see EDLY-WRIGHT, C.	
SCORDATO, E.S., DREA, C.M. Scents and sensibility: information content of olfactory signals in the ringtailed lemur, <i>Lemur catta</i> .. .. .	301
SCOTTI, M.L., see SHAW, K.A.	
seabird .. .. .	433
SEARCY, W.A., see HUGHES, M.	
seasonality .. .. .	301
sedge warbler .. .. .	629
selection .. .. .	535
self-handicapping and play signalling .. .. .	489
selfish herd .. .. .	239
SELLIER, M.-J., see FISCHHOFF, I.R.	
SENDALL, C.L., see MELIN, A.D.	
SENDOVA-FRANKS, A.B., see ALEKSIEV, A.S.	
sensory exploitation .. .. .	267
sensory trap .. .. .	267
<i>Sepsis cynipsea</i> .. .. .	85
Serengeti .. .. .	651
serotonin .. .. .	605
SERRANO-MENESES, M.A., CÓRDOBA-AGUILAR, A., MÉNDEZ, V., LAYEN, S.J., SZÉKELY, T. Sexual size dimorphism in the American rubyspot: male body size predicts male competition and mating success .. .. .	987
sex allocation .. .. .	971
sex-biased mortality .. .. .	1077
sex differences .. .. .	1009
sex pheromone .. .. .	727
sex-role convergence .. .. .	143
sex-role reversal .. .. .	1077
sexual competition .. .. .	763
sexual conflict .. .. .	85, 267
sexual differences .. .. .	339
sexual selection .. .. .	47, 267, 287, 367, 701, 727, 955, 1077
sexual size dimorphism .. .. .	987
SEYFARTH, R.M., see CROCKFORD, C.	
SHAW, K.A., SCOTTI, M.L., FOSTER, S.A. Ancestral plasticity and the evolutionary diversification of courtship behaviour in threespine sticklebacks .. .. .	415
sheep .. .. .	339
SHERWIN, C.M. The motivation of group-housed laboratory mice to leave an enriched laboratory cage .. .. .	29
shield bug .. .. .	739
SHIER, D.M., OWINGS, D.H. Effects of social learning on predator training and postrelease survival in juvenile black-tailed prairie dogs, <i>Cynomys ludovicianus</i> .. .. .	567
SHUKER, D.M., REECE, S.E., LEE, A., GRAHAM, A., DUNCAN, A.B., WEST, S.A. Information use in space and time: sex allocation behaviour in the parasitoid wasp <i>Nasonia vitripennis</i> .. .. .	971
<i>Sialia mexicana</i> .. .. .	763
signal .. .. .	605
signal recognition .. .. .	955
signal structure .. .. .	105
SIMMONS, L.W., see PETERS, M.	
simulated territorial intrusion .. .. .	143
size-assortative pairing .. .. .	943
size-correlated signal characteristics .. .. .	513
SLAGSVOLD, T., WIEBE, K.L. Hatching asynchrony and early nestling mortality: the feeding constraint hypothesis .. .. .	691
SMITH, M.D., CONWAY, C.J. Use of mammal manure by nesting burrowing owls: a test of four functional hypotheses .. .. .	65

SMULDERS, T.V., see MALE, L.H.	
SMUTS, B.B., see BAUER, E.B.	
social dominance .. .. .	1043
social facilitation .. .. .	229
social foraging .. .. .	239
social information transmission..	771
social intelligence .. .. .	885
social learning .. .. .	229, 567, 929, 1021, 1033
social play .. .. .	489
social rank and reproductive strategies ..	149
social relationships .. .. .	825
social spider.. .. .	195
social stimulation.. .. .	541
sociality .. .. .	195
socioecology .. .. .	671
<i>Somateria mollissima</i> .. .. .	239
<i>Somateria mollissima sedentaria</i> ..	877
song .. .. .	15
song acoustics .. .. .	403, 701, 833, 929
song communication.. .. .	789
song learning .. .. .	929
song learning and development..	403
song repertoire.. .. .	629, 661, 929
song sharing.. .. .	701, 789
song sparrow .. .. .	701, 929
song structure .. .. .	789
southern flying squirrel.. .. .	479
spatial learning and memory.. .. .	321
spatial movement.. .. .	339
spatial position.. .. .	239
species management.. .. .	1
sperm depletion.. .. .	85
sperm limitation.. .. .	331
sperm reserves .. .. .	331
<i>Spermophilus columbianus</i> .. .. .	115
spider web.. .. .	865, 1077
SPITERI, A., see HOPPER, L.M.	
SPOON, T.R., MILLAM, J.R., OWINGS, D.H. Behavioural compatibility, extrapair copulation and mate switching in a socially monogamous parrot .. .. .	815
spotted hyaena.. .. .	149
state-dependent behaviour .. .. .	855, 865
STEELE, B., see ÖST, M.	
STERCK, E.H.M., see KOSKI, S.E.	
stink bug.. .. .	637
STIRLING, I., see RISCH, D.	
STOCKER, R.F., see COLOMB, J.	
stone crab.. .. .	331
stress .. .. .	1, 171
<i>Strongylocentrotus droebachiensis</i> ..	979
STURM, H., see FOITZIK, S.	
STUTCHBURY, B.J.M., see CHIVER, I.	
substrate.. .. .	359
SUNDARESAN, S.R., see FISCHHOFF, I.R.	
<i>Suricata suricatta</i> .. .. .	613
SUSAKI, K., see OCHIALI, K.	
SZÉKELY, T., see SERRANO-MENESES, M.A.	
<i>Taeniopygia guttata</i> .. .. .	403
TAGLIALATELA, J.P., see HOPKINS, W.D.	
<i>Talitrus saltator</i> .. .. .	453
task specialization.. .. .	1067

teal .. .. .	845
<i>Telenomus podisi</i> .. .. .	637
<i>Temnothorax</i> .. .. .	999
<i>Temnothorax albipennis</i> .. .. .	525, 779
TEMPLETON, C.N., see BEECHER, M.D.	
temporal scale .. .. .	877
tent-making bat.. .. .	157
territorial behaviour.. .. .	275
territoriality .. .. .	125, 157, 379, 683
territory defence .. .. .	613
territory tenure.. .. .	701
TEUFEL, C., HAMMERSCHMIDT, K., FISCHER, J. Lack of orienting asymmetries in Barbary macaques: implications for studies of lateralized auditory processing .. .. .	249
TEUSCHL, Y., BLANCKENHORN, W.U. The reluctant fly: what makes <i>Sepsis cynipsea</i> females willing to copulate?.. .. .	85
Theridiidae .. .. .	855
THÉRY, M. Colours of background reflected light and of the prey's eye affect adaptive coloration in female crab spiders .. .. .	797
third-party relationships .. .. .	885
threespine stickleback .. .. .	415
<i>Thryothorus fasciatoventris</i> .. .. .	105
TOFT, S., see BILDE, T.	
TOMÁS, G., MERINO, S., MORENO, J., MORALES, J. Consequences of nest reuse for parasite burden and female health and condition in blue tits, <i>Cyanistes caeruleus</i> .. .. .	805
tomato fruit borer.. .. .	727
tool use.. .. .	1021
trade-off .. .. .	165, 845, 865
tradition.. .. .	1021
transient relationships .. .. .	885
transitive dominance .. .. .	671
translocation.. .. .	1
travel routes.. .. .	257
<i>Trichopsis vittata</i> .. .. .	379
trill .. .. .	747
TRILLMICH, F., see KOBER, M.	
tropical mockingbird .. .. .	661
TSUJI, K., see KIKUCHI, T.	
túngara frog .. .. .	955
TUNI, C., see BILDE, T.	
turquoise-browed motmot.. .. .	965
<i>Uca mjoebergi</i> .. .. .	711
UGOLINI, A., CASTELLINI, C., MERCATELLI, L. Moon orientation on moonless nights.. .. .	453
unreliable signal.. .. .	965
<i>Urosaurus ornatus</i> .. .. .	359
UV reflectance and mating success.. .. .	47
VAN DIJK, R.E., see BOUWMAN, K.M.	
VAN HORIK, J., BURNS, K.C. Cache spacing patterns and reciprocal cache theft in New Zealand robins .. .. .	1043
VAN PARIJS, S.M., see RISCH, D.	
VEHRENCAMP, S.L., see BOTERO, C.A.	
ventilation rate.. .. .	1051
VERBEEK, P., IWAMOTO, T., MURAKAMI, N. Differences in aggression between wild-type and domesticated fighting fish are context dependent .. .. .	75
vertebrate chemical communication during courtship and mating.. .. .	315
vibration signals.. .. .	541
vibrational signalling.. .. .	637
video playback.. .. .	75
vigilance.. .. .	115, 215, 239, 595
vigilance scanning.. .. .	771
<i>Vireo solitarius</i> .. .. .	143
visual access.. .. .	457



